CLAIM AMENDMENTS

- 1. (currently amended): A compound comprising a polysaccharide having at least two sialic acid units linked 2.8 and/or 2.9 to one another and having a pendant moiety linked to at least one terminal unit derived from a sialic acid unit which includes a functional group selected from N-maleimide-groups, vinylsulphone-groups, N-iodoacetamide-groups and orthopyridyl disulphide groups.
- 2. (currently amended): A compound-according to of claim 1 in which the pendant moiety is linked at the reducing terminal unit of the polysaccharide.
- 3. (currently amended): A compound according to of claim 1 or claim 2 in which the pendant moiety is linked at the non-reducing terminal unit of the polysaccharide.
- 4. (currently amended): A compound-according to any preceding_of_claim_1 in which the <u>pendant</u> moiety <u>further</u> comprises-an alkanediyl group_alkylene_and/or [[an]] arylene group and a linkage optionally in combination with a and/or an oxalkylene [[or]] and/or oligooxa-alkylene group which is a secondary amine linkage, a hydrazone, an alkyl hydrazide linkage or a peptide linkage and/or oligopeptide.
- 5. (currently amended): A compound-according to any preceding of claim 1 in which the functional group is N-maleimido.
- 6. (currently amended): A compound according to any preceding of claim 1 in which the polysaccharide is a polysialic acid, preferably consisting substantially only of sialic acid units.

7. (currently amended): [[A]] <u>The compound-according to of claim 1</u> which has the formula

$$R^3$$
- $\begin{bmatrix} -O - Gly - \end{bmatrix}_n - O - OH - NAc -$

in which one of the following groups of definitions apply wherein:

[[i)]] (a) R^1 is H or -CHOHCH₂OH, and R^2 is OH, [[and]]

 R^3 is [[either]] -CH₂CHR⁴R⁵ or -CH(CH₂OH)CHR⁴R⁵ in which wherein R^4 and R^5 together represent =N-NR⁶ or R^4 is H and R^5 is -NR⁶R⁷ in which R^6 is an organic group comprising the said pendant functional group or is H, and R^7 is H, or R^6 and R^7 together are a 1,3-but-2-enedicyl group; or

[[ii)]] (b) R^1 and R^2 together represent $= N-NR6 = N-NHR^6$ or R^1 is H and R^2 is $-NR^6R^7$ in which R^6 is an organic group comprising the said <u>pendant</u> functional group or is H, and R^7 is H or R^6 and R^7 together are a 1,3-but-2-enedicyl group;

[[Gly-O]] O-Gly is a glycosyl (saccharide) group; n is 0 or more 1-50; and Ac is acetyl.

- 8. (currently amended): A compound-according to of claim 7 in which-each Gly each O-Gly is a sialic acid unit.
- 9. (currently amended): A <u>compound comprising a polysialylated</u> protein with at least one [[free]] cysteine unit [[and,]] linked through a thioester bond to the side chain of the cysteine unit, with a polysialic acid, through a moiety joined at one or each at least one terminal units of the unit of a polysialic acid.

10. (currently amended): A compound-according to any preceding of claim 1 wherein in which the polysaccharide has at least 2, preferably at least 10, more preferably at least 50 saccharide units, preferably sialic acid units 2,8 and/or 2,9 linked to one another.

- 11. (currently amended): A process-in-which a-to prepare the compound polysaccharide emprising at least one terminal unit which is derived from a sialic acid unit is reacted with of claim 1 which comprises reacting a heterobifunctional reagent having a first functional group selected from N- maleimido-groups, vinylsulphone-groups, N-iodoacetamide groups

 N-iodoacetamido and orthopyridyl disulphide groups-and a second functional group different from the first functional group-whereby to a polysaccharide having at least two sialic acid units

 linked 2,8 and/or 2,9 to one another wherein the said second functional group reacts with a terminal sialic acid derivative unit to form a covalent bond therewith and form a functional polysaccharide suitable for selective conjugation to a thiol group.
- 12. (currently amended): A process-according to of claim 11 in which the said second functional group is a nucleophilic group, preferably hydrazine.
- 13. (currently amended): A process-according to claim 11 of claim 12 in which the terminal unit of the polysaccharide has a carbonyl group which reacts with said nucleophilic group.
- 14. (currently amended): A process-according to of claim 11 in which the said second functional group is an electrophilic group, preferably an N-alkoxycarbonyl-imide or carbodiimide moiety.
- 15. (currently amended): A process-according to of claim 14 in which the terminal unit of the polysaccharide has an amine group which reacts with said electrophilic group, preferably to form a peptide or a urethane linkage.

16. (currently amended): A process-according to any of claims 11 to 15 of claim 11 in which the reagent comprises a bifunctional an organic group linking the first and second functional groups.

- 17. (currently amended): A process according to of claim 16 in which the bifunctional organic group comprises is selected from a C_{2-18} -alkanediyl group a C_{2-18} -alkylene, [[an]] arylene group, [[an]] oligo peptide or [[and an]] oligo(alkoxy)alkyl-group.
- 18. (currently amended): A process-according to any of claims 11 to 17 of claim 11 in which the first functional group is a N-maleimide group.
- 19. (currently amended): A process-according to of claim 11 in which the reagent has the general formula

X-R-Y

in which:

X is [[a]] N-maleimido, N-iodoacetamido, S-vinylsulphonyl or S-orthopyridyldisulphide group,

R-is alkane diyl comprises alkylene, arylene or aralkylene alkarylene, alkylene-oxaalkylene, or alkylene-oligooxa-alkylene or alkyl oligopeptidyl alkyl group or oligopeptidyl; and

Y is a <u>hydrazide hydrazine</u>, an amine or N-hydroxysuccinimide group.

- 20. (canceled)
- 21. (currently amended): A process-according to any one of claims 11 to 20 in which the to prepare the polysialylated protein of claim 9 which comprises reacting a maleimido-functional polysialic acid is reacted with a polypeptide or a protein having at least one free unprotected Cys unit cysteine whereby the maleimide group forms a thioether linkage with the thiol group of a Cys unit to form a polysialyated polypeptide or protein said cysteine.

22. (currently amended): A process in which a compound according to any of claims 1 to 6 is reacted to prepare a polysialylated protein which comprises reacting the compound of claim 1 with a polypeptide or a protein having at least one free and unprotected Cys unit cysteine whereby the said functional group forms a thioether linkage with the thiol group of a Cys unit to form a conjugate of the polysaccharide with the polypeptide or protein said cysteine.

- 23. (new): The compound of claim 6 wherein said polysaccharide consists essentially of sialic acid units and said pendant moiety.
- 24. (new): The compound of claim 10 wherein the polysaccharide has at least 50 saccharide units.
 - 25. (new): The process of claim 12 wherein the nucleophilic group is hydrazine.
- 26. (new): The process of claim 14 wherein the electrophilic group is an N-alkyl oxycarbonyl amide or carbodiimide.
 - 27. (new): The process of claim 15 wherein a peptide or urethane linkage is formed.
- 28. (new): The process of claim 11 wherein the polysaccharide comprises at least 10 sialic acid units.
- 29. (new): The process of claim 28 wherein the polysaccharide has at least 50 sialic acid units.